

## Patent Abstracts of Japan

PUBLICATION NUMBER : 61209780  
PUBLICATION DATE : 18-09-86

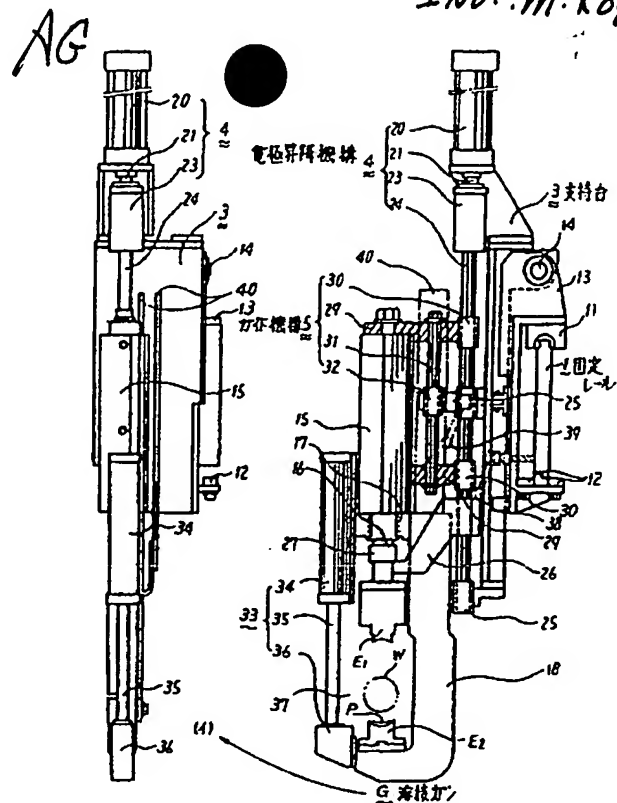
APPLICATION DATE : 14-03-85  
APPLICATION NUMBER : 60051453

APPLICANT : DENGENSHA MFG CO LTD;

INVENTOR : GENMA KANAE;

INT.CL. : B23K 11/32 G01M 1/32

TITLE : WELDING EQUIPMENT FOR  
BALANCING MACHINE



**ABSTRACT :** **PURPOSE:** To weld a metallic piece without any deflection nor deformation on a shaft by holding with contact within a fixed pressure a propeller shaft with the descent of the upper part electrode connected to the lift device of a supporting base on a horizontally fixed rail and by welding the metallic piece with electrification by pinching with the ascent of the lower part electrode.

**CONSTITUTION:** A supporting base 3 is supported by a pin 14 on the travel 13 fitted freely slippably to the horizontally fixed rail 1 of the above of a column. The upper part electrode E laid to a supporting arm 26 comes into contact with a shaft W with the descent of the cylinder 20 piston rod 21 of the supporting base 3 and a guide rod 24, and the pressing force thereof is held in 2-4kg by a floating device 23. A gun arm 18 is ascended by the pressurizing of a cylinder 15 and the lower part electrode E<sub>2</sub> placing the metallic piece P on pinches the shaft W and welds the metallic piece P. The bending force of only about 2kg is applied on the shaft W and a good welding of the metallic piece P is performed without any deflection nor deformation. The safety is secured by the descent of a piston rod 35.

**COPYRIGHT:** (C)1986,JPO&Japio

USPS EXPRESS MAIL  
EV 511 024 735 US  
JANUARY 04 2005